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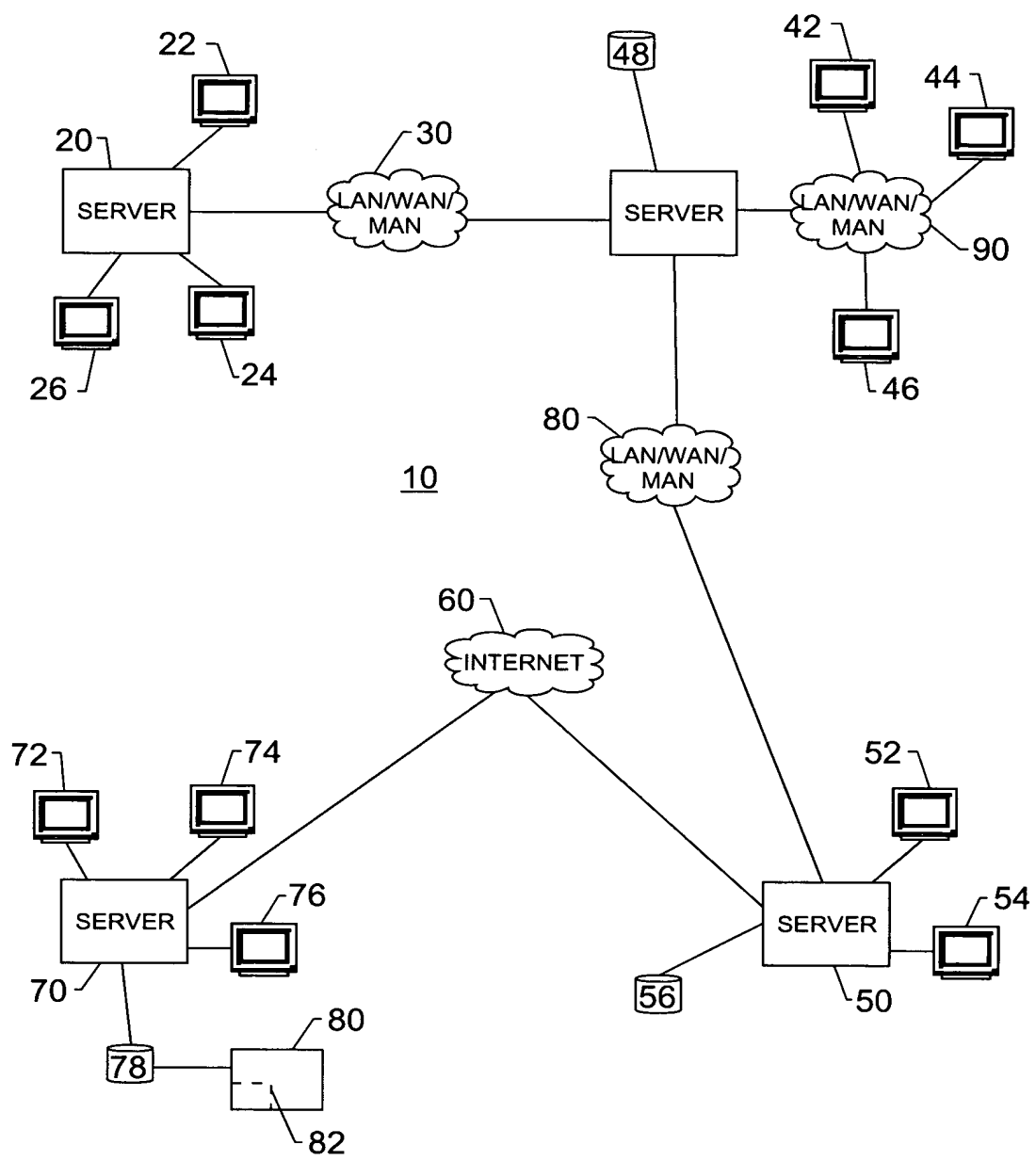
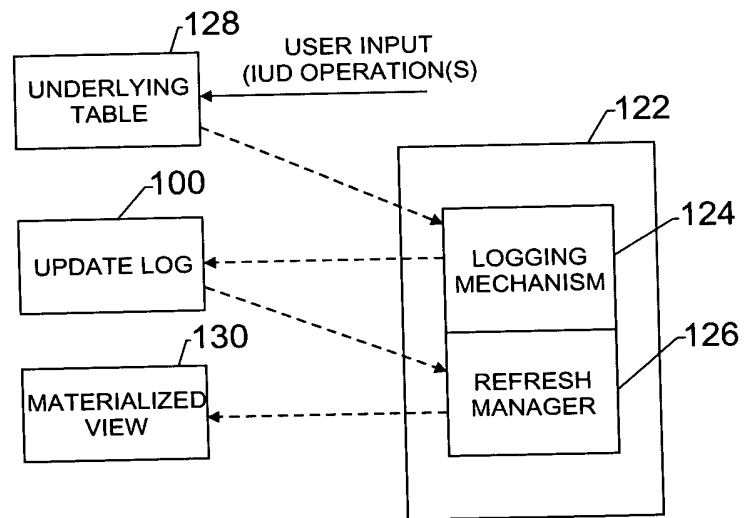


FIG. 1

RECORD	TIMESTAMP	UPDATE TYPE	DATA	EPOCH
REC 102a	TS 102b	UT 102C	DATA 102d	E 102e
REC 104a	TS 104b	UT 104C	DATA 104d	E 104e
REC 106a	TS 106b	UT 106C	DATA 106d	E 106e
REC 108a	TS 108b	UT 108C	DATA 108d	E 108e
REC 110a	TS 110b	UT 110C	DATA 110d	E 110e
REC 112a	TS 112b	UT 112C	DATA 112d	E 112e
REC 114a	TS 114b	UT 114C	DATA 114d	E 114e

100

FIG. 2



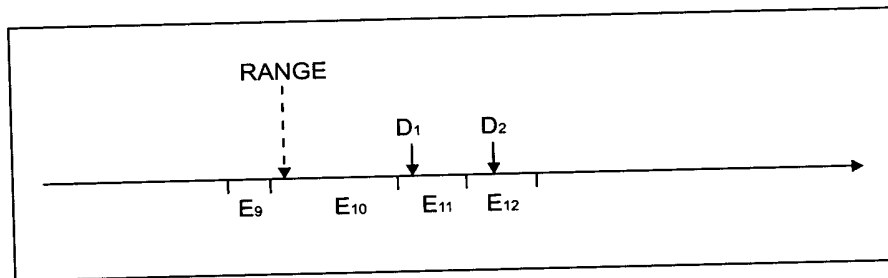
120

FIG. 3

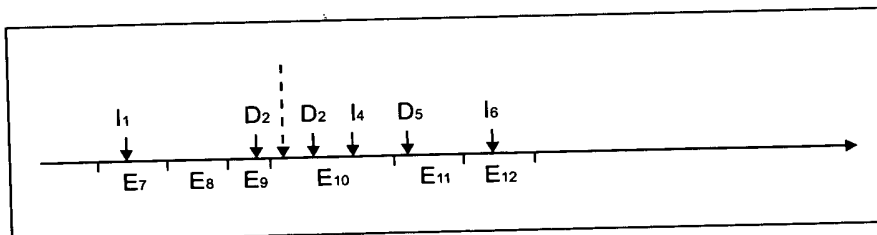
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BEFORE (IUD LOG)	CONDITION	AFTER (RANGE LOG)
$\frac{R_1}{R_2}$	$R_1.TIMESTAMP > R_2.TIMESTAMP$	R_1'
	$R_1.TIMESTAMP < R_2.TIMESTAMP$	$\frac{R_1'}{R_2'} \frac{R_1''}{R_2'}$
$\frac{R_1}{R_2}$	$R_1.TIMESTAMP > R_2.TIMESTAMP$	$\frac{R_1'}{R_2'}$
	$R_1.TIMESTAMP < R_2.TIMESTAMP$	$\frac{R_1'}{R_2'}$

200
FIG. 4



300
FIG. 5



400
FIG. 6